

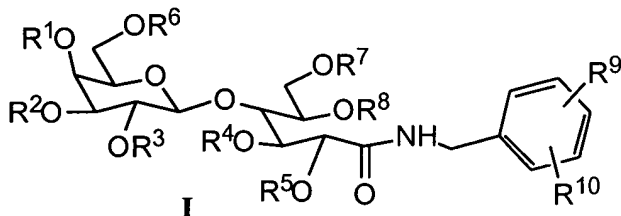


Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Previously Presented) A method of treating hyperproliferative vascular disorders in a mammal in need thereof, which comprises administering to said mammal an effective amount of a compound of formula I having the structure

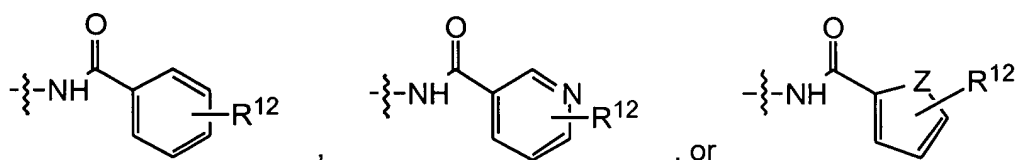


wherein

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, trifluoromethylacyl of 3-8 carbon atoms, or  $-SO_3H$ ;

R<sup>9</sup> is hydrogen, CN, NO<sub>2</sub>, halo, CF<sub>3</sub>, alkyl of 1-6 carbon atoms, or alkoxy of 1-6 carbon atoms;

R<sup>10</sup> is hydrogen, -NO<sub>2</sub>, -NHR<sup>11</sup>, -NHR<sup>13</sup>, -N(R<sup>13</sup>)<sub>2</sub>, -NCH<sub>3</sub>R<sup>13</sup>, -NHCO<sub>2</sub>alkyl, wherein the alkyl moiety contains 1-6 carbon atoms, alkylsulfonamide of 1 to 4 carbon atoms,



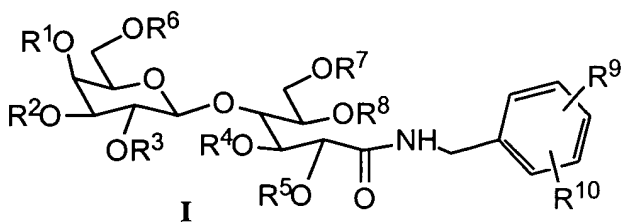
Z is O or S;

R<sup>11</sup> is an  $\alpha$ -amino acid in which the  $\alpha$  carboxyl group forms an amide with the nitrogen of R<sup>10</sup>, wherein if said amino acid is glutamic acid or aspartic acid, the non- $\alpha$  carboxylic acid is an alkyl ester in which the alkyl moiety contains from 1-6 carbon atoms;

R<sup>12</sup> is hydrogen, CN, NO<sub>2</sub>, halo, CF<sub>3</sub>, alkyl of 1-6 carbon atoms, alkoxy of 1-6 carbon atoms, or acyl of 2-7 carbon atoms;

R<sup>13</sup> is hydrogen, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, or trifluoromethylacyl of 3-8 carbon atoms; or a pharmaceutically acceptable salt thereof.

6. (Currently Amended) A method of treating restenosis in a mammal in need thereof, which comprises administering to said mammal an effective amount of a compound of formula I having the structure

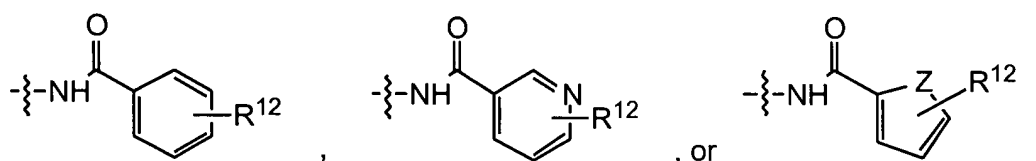


wherein

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, trifluoromethylacyl of 3-8 carbon atoms, or  $-SO_3H$ ;

$R^9$  is hydrogen, CN,  $NO_2$ , halo,  $CF_3$ , alkyl of 1-6 carbon atoms, or alkoxy of 1-6 carbon atoms;

$R^{10}$  is hydrogen,  $-NO_2$ ,  $-NHR^{11}$ ,  $-NHR^{13}$ ,  $-N(R^{13})_2$ ,  $-NCH_3R^{13}$ ,  $-NHCO_2$ alkyl, wherein the alkyl moiety contains 1-6 carbon atoms, alkylsulfonamide of 1 to 4 carbon atoms,



$Z$  is O or S;

$R^{11}$  is an  $\alpha$ -amino acid in which the  $\alpha$  carboxyl group forms an amide with the nitrogen of  $R^{10}$ , wherein if said amino acid is glutamic acid or aspartic acid, the non- $\alpha$  carboxylic acid is an alkyl ester in which the alkyl moiety contains from 1-6 carbon atoms;

$R^{12}$  is hydrogen, CN,  $NO_2$ , halo,  $CF_3$ , alkyl of 1-6 carbon atoms, alkoxy of 1-6 carbon atoms, or acyl of 2-7 carbon atoms;

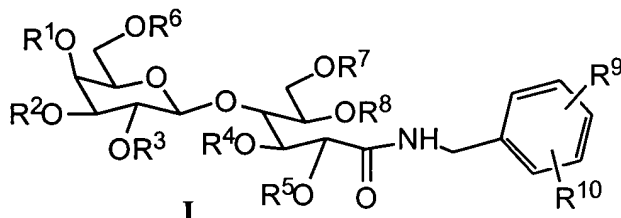
$R^{13}$  is hydrogen, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, or trifluoromethylacyl of 3-8 carbon atoms; or a pharmaceutically acceptable salt thereof.

7. (Original) The method according to claim 6, wherein the restenosis results from a vascular angioplasty procedure, vascular reconstructive surgery, or organ or tissue transplantation.

8. (Cancelled)

9. (Previously Presented) A method of preventing hyperproliferative vascular disorders following vascular reconstructive surgery or transplantation in a mammal in need thereof, which

comprises administering to said mammal an effective amount of a compound of formula I having the structure

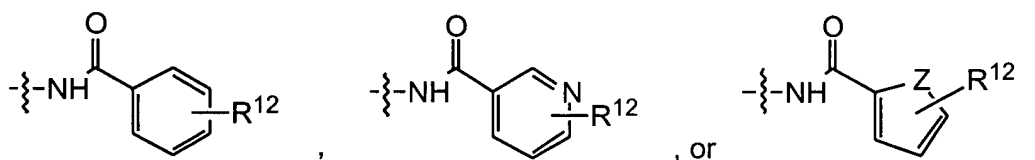


wherein

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, trifluoromethylacyl of 3-8 carbon atoms, or  $-SO_3H$ ;

$R^9$  is hydrogen, CN,  $NO_2$ , halo,  $CF_3$ , alkyl of 1-6 carbon atoms, or alkoxy of 1-6 carbon atoms;

$R^{10}$  is hydrogen,  $-NO_2$ ,  $-NHR^{11}$ ,  $-NHR^{13}$ ,  $-N(R^{13})_2$ ,  $-NCH_3R^{13}$ ,  $-NHCO_2$ alkyl, wherein the alkyl moiety contains 1-6 carbon atoms, alkylsulfonamide of 1 to 4 carbon atoms,



Z is O or S;

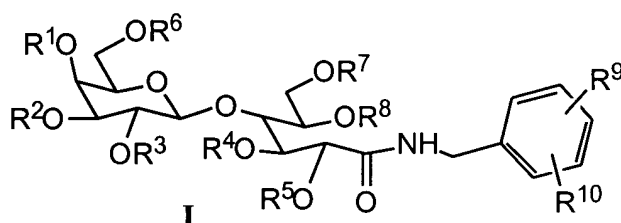
$R^{11}$  is an  $\alpha$ -amino acid in which the  $\alpha$  carboxyl group forms an amide with the nitrogen of  $R^{10}$ , wherein if said amino acid is glutamic acid or aspartic acid, the non- $\alpha$  carboxylic acid is an alkyl ester in which the alkyl moiety contains from 1-6 carbon atoms;

$R^{12}$  is hydrogen, CN,  $NO_2$ , halo,  $CF_3$ , alkyl of 1-6 carbon atoms, alkoxy of 1-6 carbon atoms, or acyl of 2-7 carbon atoms;

$R^{13}$  is hydrogen, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, or trifluoromethylacyl of 3-8 carbon atoms;

or a pharmaceutically acceptable salt thereof.

10. (Previously Presented) A method of preventing restenosis following vascular reconstructive surgery or transplantation in a mammal in need thereof, which comprises administering to said mammal an effective amount of a compound of formula I having the structure

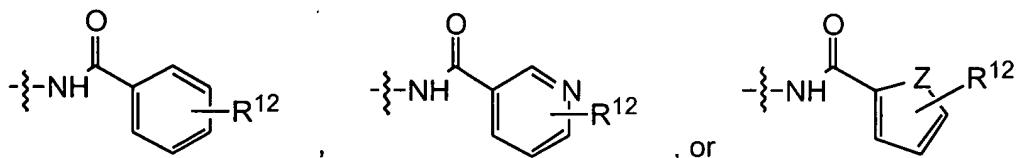


wherein

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, trifluoromethylacyl of 3-8 carbon atoms, or  $-SO_3H$ ;

$R^9$  is hydrogen, CN,  $NO_2$ , halo,  $CF_3$ , alkyl of 1-6 carbon atoms, or alkoxy of 1-6 carbon atoms;

$R^{10}$  is hydrogen,  $-NO_2$ ,  $-NHR^{11}$ ,  $-NHR^{13}$ ,  $-N(R^{13})_2$ ,  $-NCH_3R^{13}$ ,  $-NHCO_2$ alkyl, wherein the alkyl moiety contains 1-6 carbon atoms, alkylsulfonamide of 1 to 4 carbon atoms,



Z is O or S;

$R^{11}$  is an  $\alpha$ -amino acid in which the  $\alpha$  carboxyl group forms an amide with the nitrogen of  $R^{10}$ , wherein if said amino acid is glutamic acid or aspartic acid, the non- $\alpha$  carboxylic acid is an alkyl ester in which the alkyl moiety contains from 1-6 carbon atoms;

R<sup>12</sup> is hydrogen, CN, NO<sub>2</sub>, halo, CF<sub>3</sub>, alkyl of 1-6 carbon atoms, alkoxy of 1-6 carbon atoms, or acyl of 2-7 carbon atoms;

R<sup>13</sup> is hydrogen, acyl of 2-7 carbon atoms, haloacyl of 2-7 carbon atoms, nitroacyl of 2-7 carbon atoms, cyanoacyl of 2-7 carbon atoms, or trifluoromethylacyl of 3-8 carbon atoms;  
or a pharmaceutically acceptable salt thereof.

11. (Previously Presented) The method according to claim 10, wherein the vascular reconstructive surgery or transplantation is vascular angioplasty procedure; vascular reconstructive surgery; or organ or tissue transplantation.

12. (Previously Presented) The method according to claim 5, wherein  
R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, and R<sup>8</sup> are each, independently, acyl of 2-7 carbon atoms or -SO<sub>3</sub>H;  
Z is O;  
or a pharmaceutically acceptable salt thereof.

13. (Previously Presented) The method according to claim 5, wherein  
R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, and R<sup>8</sup> are each, independently, acetyl or -SO<sub>3</sub>H;  
R<sup>10</sup> is hydrogen, -NO<sub>2</sub>, -NHR<sup>13</sup>, -N(R<sup>13</sup>)<sub>2</sub>,  
R<sup>13</sup> is hydrogen, or acyl of 2-7 carbon atoms;  
or a pharmaceutically acceptable salt thereof.

14. (Previously Presented) The method according to claim 5, which the compound of formula I is:

- a) *N*-Benzyl-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- b) *N*-Benzyl-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof;

- c) *N*-(4-Nitro-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- d) *N*-(4-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- e) *N*-(3-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- f) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof; or
- g) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof.

15. (Previously Presented) The method of claim 5, wherein the method comprises administering the compound of formula I, or a pharmaceutically acceptable salt thereof, and a pharmaceutical carrier.

16. (Previously Presented) The method according to claim 6, wherein  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acyl of 2-7 carbon atoms or  $-SO_3H$ ; Z is O; or a pharmaceutically acceptable salt thereof.

17. (Previously Presented) The method according to claim 6, wherein  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acetyl or  $-SO_3H$ ;  $R^{10}$  is hydrogen,  $-NO_2$ ,  $-NHR^{13}$ ,  $-N(R^{13})_2$ ,

R<sup>13</sup> is hydrogen, or acyl of 2-7 carbon atoms;  
or a pharmaceutically acceptable salt thereof.

18. (Previously Presented) The method according to claim 6, which the compound of formula I is:

- a) *N*-Benzyl-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- b) *N*-Benzyl-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof;
- c) *N*-(4-Nitro-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- d) *N*-(4-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- e) *N*-(3-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- f) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof; or
- g) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof.



19. (Previously Presented) The method of claim 6, wherein the method comprises administering the compound of formula I, or a pharmaceutically acceptable salt thereof, and a pharmaceutical carrier.

20-23. (Cancelled).

24. (Previously Presented) The method according to claim 9, wherein  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acyl of 2-7 carbon atoms or  $-SO_3H$ ; Z is O; or a pharmaceutically acceptable salt thereof.

25. (Previously Presented) The method according to claim 9, wherein  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acetyl or  $-SO_3H$ ;  $R^{10}$  is hydrogen,  $-NO_2$ ,  $-NHR^{13}$ ,  $-N(R^{13})_2$ ,  $R^{13}$  is hydrogen, or acyl of 2-7 carbon atoms; or a pharmaceutically acceptable salt thereof.

26. (Previously Presented) The method according to claim 9, which the compound of formula I is:

- a) *N*-Benzyl-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- b) *N*-Benzyl-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof;
- c) *N*-(4-Nitro-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- d) *N*-(4-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- e) *N*-(3-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- f) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof; or
- g) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof.

27. (Previously Presented) The method of claim 9, wherein the method comprises administering the compound of formula I, or a pharmaceutically acceptable salt thereof, and a pharmaceutical carrier.

28. (Previously Presented) The method according to claim 10, wherein  
 $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acyl of 2-7 carbon atoms or  $-SO_3H$ ;  
Z is O;  
or a pharmaceutically acceptable salt thereof.

29. (Previously Presented) The method according to claim 10, wherein  
 $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ , and  $R^8$  are each, independently, acetyl or  $-SO_3H$ ;  
 $R^{10}$  is hydrogen,  $-NO_2$ ,  $-NHR^{13}$ ,  $-N(R^{13})_2$ ,  
 $R^{13}$  is hydrogen, or acyl of 2-7 carbon atoms;  
or a pharmaceutically acceptable salt thereof.

30. (Previously Presented) The method according to claim 10, which the compound of formula I is:

- a) *N*-Benzyl-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- b) *N*-Benzyl-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof;
- c) *N*-(4-Nitro-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- d) *N*-(4-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;
- e) *N*-(3-Amino-benzyl)-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof;

f) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-acetyl-lactobionamide or a pharmaceutically acceptable salt thereof; or

g) *N*-[3-(Acetylamino)-benzyl]-octa-*O*-sulfo-lactobionamide or a pharmaceutically acceptable salt thereof.

31. (Previously Presented) The method of claim 10, wherein the method comprises administering the compound of formula I, or a pharmaceutically acceptable salt thereof, and a pharmaceutical carrier.